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# Large Crop Variety Trials in Illinois-2002



Crop Sciences Special Report 2002-02

Performance Information Provided by

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

**Department of Crop Sciences**

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**DATA ALSO AVAILABLE AT: <http://vt.cropsci.uiuc.edu>**

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# PERFORMANCE OF COMMERCIAL FORAGES IN ILLINOIS

**THE UNIVERSITY OF ILLINOIS** commercial forage testing program has been testing public and private forages for over 51 years. The initial purpose was to evaluate the many public varieties available, today public varieties are far out numbered by private varieties. This year 44 seed companies are participating in the 2002 trials.

The purpose of this commercial forage testing program is to provide unbiased, objective, and accurate testing of all varieties entered. The tests are conducted on as uniform a soil as is available in the testing area. Small plots are used to reduce the chance of soil and climatic variations occurring between one variety plot and another.

The results of these tests should help you judge the merits of varieties in comparison with other private and public varieties. Because your soils and management may differ from those of the test location, you may wish to plant variety strips of the higher-performing varieties on your farm. The results printed in this circular should help you decide which varieties to try.

## TEST PROGRAM

**Selection of entries** Forage producers in Illinois and surrounding states were invited to enter varieties in the 2002 Illinois forage performance trials. Entrants were required to provide seed in a commercially available container to the University of Wisconsin for distribution to other public testing programs. This is to ensure performance is not affected by seed source and to avoid each entrant the cost of sending a commercial bag of seed to each program.

To help finance the testing program, a fee of \$450 per location per 4 years was charged for each variety entered by the seed producer. Most of these varieties are commercially available, but some experimental varieties were also entered. A total of 140 varieties were tested in 2002.

**Number and location of tests** In 2002, tests were conducted at 5 locations throughout the state (see map on pg. 4). These sites represent the major soils and dairy producing areas of the state.

**Field plot design** Entries of each test were replicated four times in a randomized complete block. Plot size was 23 feet by 3 feet and end trimmed at each harvest to obtain a 19 foot long plot.

**Fertility and weed control** All test locations were managed at a high level of fertility for each crop. Herbicides were used at all test locations for weed control.

**Method of planting and harvesting** All trials were seeded with a five row seeder modified to accommodate small plot seeding. Plots were seeded at 18 pounds per acre. Harvests were taken with a custom built flail chopper equipped with electronic data gathering equipment.

## PERFORMANCE DATA

**Yield** Forage yield is reported in tons dry matter per acre. Yields were converted to a dry matter basis by estimating percent moisture within each trial.

## SUGGESTIONS FOR COMPARING ENTRIES

It is impossible to obtain an exact measure of performance when conducting any test of plant material. Harvesting efficiency may vary, soils may not be uniform, and many other conditions may produce variability. Results of repeated tests are more reliable than those of a single year or a single-strip test. When one variety consistently out yields another at several test locations and over several years of testing, the chances are good that this difference is real and should be considered in selecting a variety.

As an aid in comparing alfalfa varieties within a single trial, certain statistical tests have been devised. One of these tests, the least significant difference (L.S.D.), when used in the manner suggested by Carmer and Swanson<sup>1</sup> is quite simple to apply and is more appropriate than most other tests. When two entries are compared and the difference between them is greater than the tabulated L.S.D. value, the entries are judged to be "significantly different."

The L.S.D. is a number expressed in tons dry matter per acre and presented following the average yield. An L.S.D. of 5% is shown. Add the L.S.D. value to the trial mean. Every variety with a greater yield than the resulting number is 'statistically better than average. Consider the merits of the varieties in this group when making varietal selections.

To make the best use of the information presented in this circular and to avoid any misunderstanding or misrepresentation of it, the reader should consider an additional caution about comparing entries. Readers who compare entries in different trials should be extremely careful, because no statistical tests are presented for that purpose. Readers should note that the difference between a single entry's performance at one location and its performance at another is caused primarily by environmental effects and random variability. Furthermore, the difference between the performance of entry A in one trial and the performance of entry B in another trial is the result not only of environmental effects and random variability, but of genetic effects as well.

<sup>1</sup>Carmer, S.G. and M.R. Swanson. "An Evaluation of Ten Pairwise Multiple Comparison Procedures by Monte Carlo Methods." Journal of American Statistical Association 68:66-74. 1983.

**2002 TEST FIELDS**

**Freeport**

Location: Stephenson county, north of Freeport, north central Illinois.

Cooperators: Dave and Mike Macomber.

**Yorkville**

Location: Kendall county, south of Yorkville, north eastern Illinois.

Cooperator: Dave Stewart.

**Urbana**

Location: University of Illinois, Crop Sciences Research and Education Center, Champaign County, east central Illinois.

Cooperators: Robert Dunker, agronomist, Mike Kleiss, farm foreman.

**Perry**

Location: University of Illinois, Orr Agricultural Research and Demonstration Center, near Perry, Pike County, west central Illinois.

Cooperators: Glenn Raines, agronomist; Mike Vose, farm foreman.

**Belleville**

Location: Southern Illinois University Research Center, east of Belleville, St. Clair County.

Cooperators: Ed Varsa, research director; Ron Krausz, field manager.

**2002 GROWING SEASON RAINFALL**

Location	April	May	June	July	Aug
Freeport	4.90	2.70	6.90	1.40	12.0
Yorkville	4.40	4.80	3.20	1.60	3.10
Urbana	4.30	5.60	2.50	3.20	7.60
Perry	5.66	9.15	4.60	4.75	4.46
Belleville	4.90	6.60	1.70	3.70	3.62

**SOURCES OF SEED**

**ABI Alfalfa**, ABI Alfalfa, Inc., 2316 259th St., Ames, IA 50014

**AgriBioTech**, AgroBioTech, Inc., 120 Corporate Park Dr., Henderson, NV 89014

**AgriPro**, AgriPro Seeds, Inc., R.R. 2, Hwy 30 East, Ames, IA 50010

**America's Alfalfa**, ABI Alfalfa, 2316 259th St., Ames, IA 50014

**Ampac**, Ampac Seed Co., P.O. Box 318, Tangent, OR 97389

**Bio Plant**, Bio Plant Research, P.O. Box 320, Camp Point, IL 62320

**Callahan**, Callahan Seeds, 1122 East 169th St., P.O. Box 367, Westfield, IN 46074-0367

**Cargill**, Cargill Hybrid Seeds, P.O. Box 5645, Minneapolis, MN 55440

**Cebeco**, Cebeco Internatinal seeds inc., P.O. Box 229 / 175 W. "H" Street, Halsey, OR 97333

**Dairyland**, Dairyland Seed Co., P.O. Box 958, West Bend, WI 53095

**Dekalb**, Monsanto, 3100 Sycamore Road, Dekalb, IL 60115

**Delong**, The Delong Co., P.O. Box 522, Clinton, WI 53525

**FFR**, FFR Cooperative, 4112 E. St. Rd. 225, West Lafayette, IN 47906

**DLF**, DLF-JENKS, P.O. Box 216, Albany, OR 97321

**Emerald**, Emereald Commodities Inc., 32041 Cartney Dr. Harrisburg, OR 97466

**Garst**, Garst Seed Co., 2369-330th St, P.O. Box 500, Slater, IA 50244

**Geertson**, Geertson Seed Farms, 1665 Burroughs Rd., Adrian, OR 98901

**George Keller**, George Keller & Sons Co., P.O. Box 490, 909 Maine St., Quincy, IL 62306-0490

**Golden Harvest**, Golden Harvest Seed Co., 27420 137th Ave. N., Cordova, IL 61242

**Grassland West**, Grassland West Co., 908 Port Dr., Clarkston, WA 99403

**Great Plains**, Great Plains Research Co., 3624 Kildaire Farm Road, Apex, NC 27502

**Growmark**, Growmark Inc., 1701 Towanda Ave., Bloomington, IL 61701

**Improved Forages**, Improved Forages, P.O. Box 230, Lake Oswego, OR 97034

**Int'l Seeds**, International Seeds, Inc., P.O. Box 168, Halsey, OR 98348

**Jenks Seed**, Jenks Seed Connection, 34058 Oakville Road, P.O. Box 1468, Albany, OR 98321

**Kaltenberg**, Kaltenberg Seed Farms, P. O. Box 278, Waunakee, WI 53597

**Kitchen**, Kitchen Seed Company, Inc., P.O. Box 286, Arthur, IL 61911

**Lewis**, Lewis Seed Co., 33820 Linn-West Dr. Shedd, OR 97377

**MBS**, MBS, 225 West First St., Story City, IA 50248

**Mountain View Seeds**, Mountain View Seeds, 8955 Sunny View Rd. NE, Salem, OR 97305

**NC+**, NC+ Hybrid, P.O. Box 4408, Lincoln, NE 68504

**NetSeeds**, NetSeeds, Inc., 9001 Hickman Rd., Ste 320, Urbandale, IA 50322

**Ottillie**, Ottillie Seed Farms. Seeds, 1462 Sanford Ave., Marshalltown, IA 50158

**Pennington Seed**, Pennington Seed, Inc. of Oregon, Lebanon, OR 98355

**Pickseed**, Pickseed Canada Inc., 1 Greenfield Rd., Lindsay, ON K9V453

**Pioneer**, Pioneer Hi-bred International, Inc., 14171 Carole Dr., Bloomington. IL 61704

**Public Varieties**, Various sources

**Pyne Gould Guinness**, Pyne Gould Guinness, 411 Blenheim Rd., Christchurch, New Zealand 8015

**Renk**, Renk Seed Co., 6800 Wilburn Road, Sun Prairie, WI 53590

**Schultz**, Schultz Turf and Forage Seed, P.O. Box 1623, Effungham, IL 62401

**Seed Research**, Seed Research of Oregon, 27630 Llewellyn Rd. Corvallis, OR 97333

**Smith Seed**, Smith Seed Services, P.O. Box 288, Halsey OR 97348

**United Suppliers**, United Suppliers Inc., P.O. Box 538, Eldora, IA 50627

**W-L Research**, W-L Research, Inc., 8701 W. US Hwy. 14, Evansville, WI 53536-8752

## 2002 FORAGE LOCATIONS





## 2002 Alfalfa and Forage Grass Entries

* experimental	Marketer	Brand-Variety	Freeport				Yorkville		Urbana				Perry		Belleville	
			99	00	01	02	99	00	99	00	01	02	99	01	99	00
	GARST	631	x		x		x		x	x						
	GARST	6310	x				x									
	GARST	6410	x		x	x	x		x	x						
	GEERSTON	9701	x													
	GARST	3R22*													x	
	KALTENBERG	4 TRAFFIC			x											
	GARST	4G70*													x	
	FFR	4R37*							x							x
	PIONEER	53H81								x						x
	PIONEER	53H81*	x				x	x								
	PIONEER	53Q60	x		x		x	x	x	x					x	x
	PIONEER	54H91				x										
	PIONEER	54V54			x	x			x	x						x
	PIONEER	54V54*	x				x	x								
	GARST	6420				x										
	GARST	645-II	x		x		x		x	x						
	KITCHEN	797 LHR									x					
	GEERSTON	9702			x											
	MBS	A 30-06			x											x
	MBS	A-395													x	
	BIO PLANT RESEARCH	ABUNDANCE			x					x						
	GEORGE KELLER	ABSOLUTE BRAND			x								x			x
	GEORGE KELLER	ABSOLUTE BRAND GZ				x				x			x			x
	GEORGE KELLER	ABSOLUTE BRAND II				x				x						
	AGRIBIOTECH	ABT 400 SCL													x	
	AMERICA'S ALFALFA	AMERIGUARD 302 +Z	x						x							
	AMERICA'S ALFALFA	AMERISTAND 403T			x					x						
	AG VENTURE	AV 3420			x											
	CALLAHAN	AWESOME	x													x
	BARENBRUG	BARALFA 54													x	
	W-L RESEARCH	C 207*	x													
	W-L RESEARCH	C 224*	x													
	W-L RESEARCH	C 316*	x													
	W-L RESEARCH	C 416*														x
	GREAT PLAINS	CIMARRON SR											x			
	FFR	CLEAN SWEEP 1000													x	
	AGRIPRO	DEFENSE +EV					x									x
	DEKALB	DK 131 HG						x					x		x	x
	DEKALB	DK 134			x											
	DEKALB	DK 140	x										x		x	x
	DEKALB	DK 141	x										x		x	x
	DEKALB	DKA 42-15			x					x						
	AMERICA'S ALFALFA	EMPEROR	x												x	
	BIO PLANT RESEARCH	ENHANCER	x				x									
	KITCHEN	EXTENDER II								x						
	AGRIPRO	FEAST +EV	x			x	x									x
	CARGILL	FQ 302 HR						x								
	CARGILL	FQ 315	x													x
	GOLDEN HARVEST	GH 700			x											
	BIO PLANT RESEARCH	GOLD LEAF			x				x							
	DARIYLAND	HYBRIFORCE-400			x					x						
	AMERICA'S ALFALFA	IMPERIAL	x													
	SCHULTZ	INTRIGUE							x							
	NC+ HYBRIDS	JADE II						x								
	DARIYLAND	MAGNUM V			x					x						
	NETSEED	NETYIELD 500*	x													
	GROWMARK	PEGASUS									x					

## 2002 Alfalfa and Forage Grass Entries

* experimental		Freeport					Yorkville		Urbana			Perry		Belleville	
Marketer	Brand-Variety	99	00	01	02	99	99	00	01	02	99	01	99	00	
BIO PLANT RESEARCH	PROLIFIC .....				X					X					
DELONG	RADIANT .....				X										
GROWMARK	RELIANCE .....				X									X	
PGI ALFAFLA	REWARD II .....					X									
GEERSTON	RHINO .....	X													
GROWMARK	ROCKET .....				X									X	
GROWMARK	ROCKET* .....	X						X							
PUBLIC	SARANAC AR .....	X				X	X	X			X		X		
CALLAHAN	STELLAR .....												X		
ALLIED SEED	TRIPLE CROWN .....				X										
OTILIE	TRUMP .....	X			X										
UNITED SUPPLIERS	US A4230 .....				X										
PUBLIC	VERNAL .....	X			X	X	X	X	X		X		X	X	
W-L RESEARCH	W 201* .....	X													
W-L RESEARCH	W 304* .....	X													
W-L RESEARCH	W 311* .....	X													
W-L RESEARCH	W 324* .....	X													
W-L RESEARCH	W 330* .....	X													
W-L RESEARCH	W 426* .....	X													
BIO PLANT RESEARCH	WETLAND .....	X				X		X							
RENK	WINTER GOLD .....	X													
GROWMARK	WL 319 HQ .....				X										
GROWMARK	WL 327 .....								X						
GROWMARK	WL 338 SR .....				X										
GROWMARK	WL 342 .....				X										
AGRIPRO	YIELDER .....							X						X	
ABI ALFALFA	ZH 9825 H* .....							X							
ABI ALFALFA	ZH 9831 H* .....							X							

### Perennial Forage Grasses

PENNINGTON	AGRBW 101 TF <sup>1</sup> .....												X	
SCHULTZ TURF & FORAGE	ALBERT OG .....									X				
IMPROVED FORAGES	BESTFOR LH .....									X				
PUBLIC	BISON HRG .....									X		X		
GRASSLAND WEST	BRONC OG .....								X					
IMPROVED FORAGES	BULL TF .....								X	X				
JENKS	CAS-LG31 OG .....								X					
PYNE GOULD GUINNESS	CAS-M85 TF .....								X					
SEED RESERCH OF OREGON	CENTURY OG .....									X				
CEBECO INTL. SEEDS	CISI OG 10* OG .....									X				
PUBLIC	CLAIR TM .....									X		X		
DLF-JENKS	DEBORAH* SB .....									X				
AMPAC	DIXON PB .....											X		
AMPAC	DUO FS .....											X		
AMPAC	EASTWOOD OG .....	X							X			X		
EMERALD	EC406* RC .....									X				
EMERALD	EC407* PRG .....									X				
ALLIED SEED	EXTEND SB .....									X				
DLF-JENKS	FELINA FS .....									X				
PICKSEED	FESTIVAL TF .....	X										X		
SMITH SEED SERVICES	GRAND DADDY PRT ...								X	X				
JENKS	HOEDOWN TF .....								X					
SEED RESERCH OF OREGON	ICON OG .....									X				
AMPAC	K5666 V* TF .....									X				
PUBLIC	KENTUCKY 31 TF .....	X							X	X		X		

## 2002 Alfalfa and Forage Grass Entries

		Freeport				Yorkville	Urbana				Perry		Belleville	
* experimental		99	00	01	02	99	99	00	01	02	99	01	99	00
Marketer	Brand-Variety													
AMPAC	KOKANEE TF .....		x									x		
DLF-JENKS	KORA TF .....									x				
CEBECO INT'L SEEDS	LATEMATE OG .....									x				
AMPAC	LATOKA PB .....											x		
PUBLIC	LINCOLN SB .....									x		x		
ALLIED SEED	MARATHON RC .....									x				
INT'L SEEDS	MARTIN 2 TF .....							x						
PUBLIC	MATUA PB .....											x		
AMPAC	MAVERICK GOLD RG ..									x				
PENNINGTON	MAX Q JESUP TF .....		x					x				x		
ALLIED SEED	OG 9701 OG .....									x				
FFR	OG9705G OG .....		x											
PICKSEED	OKAY OG .....		x									x		
PUBLIC	PALATON RC .....									x				
ALLIED SEED	PEAK SB .....									x				
PUBLIC	POTOMAC OG .....		x					x		x		x		
AMPAC	QUANTUM* TF .....									x				
AMPAC	QUARTET PRG .....									x				
LEWIS SEED CO.	RAD-MA216* TF .....									x				
FFR	SELECT TF .....		x											
ALLIED SEED	SUMMIT TM .....									x				
SMITH SEED SERVICES	TAKENA OG .....									x				
MOUNTAIN VIEW	TETON TF .....							x						
PUBLIC	TONGA PRT .....		x					x		x		x		
AMPAC	TUUKKA TM .....											x		
IMPROVED FORAGES	UDDER OG .....							x		x				
LEWIS SEED CO.	VALLY SELECT MX ...									x				
AMPAC	YORK* SB .....									x				

<sup>1</sup>OG= Orchard grass

PR= Perennial ryegrass

SB= Smooth brome grass

TF= Tall fescue

C= Chicory

TM= Timothy

RC= Reed canarygrass

PG= Prairie grass

HRG= Hybrid ryegrass

PRT= Perennial ryegrass tetraploid

MX= Mixture

FS= Festulolium

LH= Lolium Hybidum

PB= Prairie Broomegrass

Disease and Fall Dormancy Ratings of Alfalfa Varieties in Illinois

Brand-Variety	FD*	BW	PR	AP	VW	FW	AN	PA	SN	RN	LH
631	4	HR	HR	MR	R	HR	R	HR	R	-	S
6310^	3	HR	HR	R	HR	HR	HR	R	MR	-	R
6410	4	HR	HR	HR	HR	HR	HR	HR	MR	-	S
9701^	3	R	HR	R	R	HR	R	-	-	-	-
3R22^	3	HR	HR	R	HR	HR	HR	HR	R	-	HR
4 TRAFFIC	4	HR	HR	R	HR	HR	HR	HR	-	-	-
4G70^	4	HR	HR	HR	HR	HR	HR	HR	MR	-	-
4R37^	3	HR	HR	R	R	HR	HR	-	-	-	R
53H81	3	HR	R	HR	HR	HR	HR	R	-	-	-
53H81^	3	HR	HR	HR	HR	HR	HR	R	-	-	HR
53Q60	3	HR	HR	R	R	R	HR	MR	R	MR	S
54H91	4	HR	HR	R	HR	R	HR	R	MR	MR	-
5454	4	R	HR	LR	MR	HR	HR	R	MR	ND	ND
54V54	4	HR	HR	MR	HR	HR	HR	-	LR	-	LR
6420	4	HR	HR	R	R	HR	-	R	R	HR	-
645-II	3	HR	HR	R	R	HR	HR	R	MR	-	S
797 LHR^	3	HR	HR	R	HR	HR	HR	R	-	-	R
9702	4	HR	HR	R	HR	HR	M	R	-	-	-
A 30-06	3	HR	HR	HR	HR	HR	HR	R	-	-	-
A-395	3	HR	HR	R	R	HR	HR	MR	MR	-	-
ABUNDANCE	4	NR	HR	R	R	HR	R	R	R	HR	-
ABSOLUTE BRAND^	4	HR	R	-	R	R	HR	R	ND	-	-
ABSOLUTE BRAND GZ^	4	HR	HR	MR	MR	HR	HR	HR	R	ND	ND
ABSOLUTE BRAND II^	4	HR	HR	R	R	HR	HR	HR	R	-	-
ABT 400 SCL	4	HR	HR	HR	HR	HR	HR	R	-	-	-
AMERIGUARD 302+Z^	3	HR	HR	HR	HR	HR	HR	R	R	-	-
AMERISTAND 403T	4	HR	HR	R	HR	HR	HR	MR	-	-	-
AV 3420	4	HR	HR	HR	R	HR	HR	-	R	-	-
AWESOME^	4	HR	HR	HR	HR	HR	HR	-	-	-	-
BARALFA 54	5	R	HR	-	R	HR	HR	HR	R	-	-
C 207^	3	HR	HR	HR	HR	HR	HR	-	-	-	-
C 224^	2	HR	HR	HR	HR	HR	HR	-	-	-	-
C 316^	4	HR	HR	R	HR	HR	HR	-	-	-	-
C 416^	4	HR	HR	HR	R	HR	HR	-	-	-	-
CIMARRON SR^	4	HR	HR	MR	HR	HR	HR	HR	R	R	-
CLEAN SWEEP 1000	3	HR	HR	R	R	HR	HR	R	-	-	R
DEFENSE +EV	3	HR	HR	HR	HR	HR	HR	R	-	-	R
DK 131 HG^	3	HR	HR	R	HR	HR	HR	MR	MR	-	HR
DK 134^	3	HR	HR	HR	HR	HR	HR	HR	MR	-	-
DK 140	4	HR	HR	HR	R	HR	HR	R	MR	-	-
DK 141	4	HR	HR	HR	HR	HR	HR	R	MR	-	-
DKA 42-15	4	HR	HR	HR	HR	HR	HR	HR	R	-	-
EMPEROR	4	HR	HR	HR	HR	HR	HR	R	MR	-	-
ENHANCER	4	HR	HR	MR	R	HR	R	-	-	-	-
EXTENDER II	4	HR	HR	HR	HR	HR	HR	HR	MR	MR	S
FEAST +EV	3	HR	HR	HR	HR	HR	R	MR	MR	-	-
FQ 302 HR^	3	HR	HR	R	R	HR	HR	-	R	-	HR
FQ 315^	3	HR	HR	HR	R	HR	HR	R	R	-	-
GH 700	4	HR	HR	HR	HR	HR	HR	HR	R	-	-
GOLD LEAF	4	HR	HR	R	R	HR	R	R	R	HR	-
HYBRIFORCE-400	4	HR	HR	MR	R	HR	R	R	R	HR	-
IMPERIAL	3	HR	HR	R	R	HR	HR	HR	LR	-	-
INTRIGUE	4	HR	HR	HR	HR	HR	HR	HR	R	-	-
JADE II	4	HR	HR	MR	R	HR	R	R	-	MR	-
MAGNUM V	4	HR	HR	MR	R	HR	R	R	R	MR	-
NETYIELD 500^	4	HR	HR	MR	R	MR	R	R	R	HR	-
PEGASUS	4	HR	HR	R	HR	HR	HR	-	R	-	-
PROLIFIC	3	HR	HR	R	R	HR	R	R	R	HR	-
RADIANT	4	HR	HR	HR	HR	HR	HR	R	R	-	-
RELIANCE	3	HR	HR	R	HR	HR	HR	R	MR	-	-
REWARD II	4	HR	HR	R	R	HR	R	R	R	HR	S

\* See page 9 for abbreviation key.

^ Varieties not reviewed by the Alfalfa Council.



**Disease and Fall Dormancy Ratings of Alfalfa Varieties in Illinois**

Brand-Variety	FD*	BW	PR	AP	VW	FW	AN	PA	SN	RN	LH
RHINO	3	HR	R	R	R	R	R	HR	R	-	-
ROCKET	3	HR	HR	HR	R	HR	HR	R	MR	-	-
ROCKET^	3	HR	HR	HR	HR	HR	HR	HR	HR	-	-
SARANAC AR	4	MR	-	-	-	R	HR	S	-	-	LR
STELLER	4	HR	HR	LR	HR	HR	HR	R	-	-	-
TRIPLE CROWN	3	HR	HR	HR	R	HR	HR	HR	MR	-	-
TRUMP^	3	HR	HR	HR	R	HR	HR	R	-	-	-
US A4230	4	HR	HR	HR	HR	HR	HR	R	R	-	-
VERNAL	2	R	-	-	-	MR	-	-	-	MR	-
W 201^	4	HR	HR	HR	HR	HR	HR	-	-	-	-
W 304^	3	HR	HR	HR	HR	HR	HR	-	-	-	-
W 311^	4	HR	HR	HR	HR	HR	HR	-	-	-	-
W 324^	2	HR	HR	R	R	HR	HR	-	-	-	-
W 330^	3	HR	HR	HR	HR	HR	HR	-	-	-	-
W 426^	2	HR	HR	R	HR	HR	HR	-	-	-	-
WETLAND	3	R	HR	MR	MR	R	R	-	-	-	-
WINTER GOLD	4	HR	HR	HR	HR	HR	HR	R	-	-	-
WL 319 HQ	3	HR	HR	HR	HR	HR	HR	HR	MR	-	-
WL 327	4	HR	HR	HR	R	HR	HR	R	R	-	-
WL 338 SR	4	HR	HR	HR	R	HR	HR	R	-	-	-
WL 342	4	HR	HR	HR	HR	HR	HR	HR	R	-	-
YIELDER	3	HR	HR	MR	R	HR	R	R	-	-	-

**\*FD=Fall Dormancy Rating**

1 = Norseman  
2 = Vernal  
3 = Ranger  
4 = Saranac

**Disease and Pest Abbreviations**

BW= Bacterial Wilt  
PR = Phytophthora Root Rot  
AP = Aphanomyces  
VW =Verticillium Wilt  
FW = Fusarium Wilt  
AN = Anthracnose  
PA = Pea Aphid  
SN = Stem Nematode  
RN = Root Knot Nematode  
LH = Leafhopper

Resistance Class	% Resistant Plants
HR = High Resistance	>50
R = Resistant	31-50
MR = Medium Resistance	15-30
LR = Low Resistance	6-14
S = Susceptible	0-5
ND = Not Determined	

### 1999 Freeport Alfalfa Variety Trial

Brand-Variety	2002					2001	2000	3-yr	Relative
	5/25	6/25	7/24	8/27	Total	Total	Total	Total	Yield
	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	% Trial Mean
* Experimental									
WINTER GOLD	2.50	2.38	1.91	1.70	8.49	7.19	7.40	23.09	110
TRUMP	2.57	2.45	1.90	1.67	8.59	7.16	7.23	22.97	109
54V45*	2.48	2.27	1.74	1.65	8.14	7.08	7.49	22.70	108
ROCKET*	2.57	2.29	1.73	1.67	8.26	6.95	7.34	22.55	107
FQ 315	2.66	2.23	1.71	1.62	8.21	6.86	7.43	22.49	107
DK 140	2.53	2.24	1.70	1.62	8.09	7.01	7.38	22.47	107
W 330*	2.42	2.09	1.64	1.63	7.78	6.92	7.56	22.25	106
W 311*	2.41	2.21	1.71	1.61	7.93	6.75	7.52	22.20	105
C 207*	2.40	2.06	1.60	1.59	7.64	6.88	7.63	22.15	105
ENHANCER	2.68	2.15	1.62	1.61	8.05	6.85	7.17	22.08	105
6410	2.28	2.25	1.70	1.61	7.83	6.72	7.34	21.88	104
AWESOME	2.41	2.08	1.64	1.58	7.71	6.75	7.33	21.79	103
W 201*	2.32	2.03	1.51	1.50	7.34	7.08	7.23	21.65	103
W 324*	2.49	2.11	1.57	1.54	7.70	6.79	7.05	21.54	102
RHINO	2.31	2.08	1.59	1.58	7.56	6.76	7.13	21.44	102
W 304*	2.21	2.18	1.57	1.60	7.55	6.56	7.33	21.44	102
53Q60	2.49	2.13	1.58	1.50	7.69	6.44	6.99	21.12	100
C 316*	2.32	1.99	1.49	1.50	7.30	6.63	6.90	20.82	99
W 426*	2.31	2.13	1.56	1.49	7.48	6.29	7.03	20.80	99
IMPERIAL	2.35	2.16	1.53	1.51	7.53	6.34	6.91	20.78	99
EMPEROR	2.47	2.07	1.53	1.50	7.57	6.34	6.86	20.77	99
C 224*	2.31	2.02	1.59	1.52	7.44	6.38	6.92	20.74	99
645-II	2.53	2.06	1.47	1.48	7.54	6.54	6.61	20.69	98
DK 141	2.28	2.05	1.49	1.54	7.35	6.27	7.00	20.62	98
NETYIELD 500*	2.27	2.05	1.50	1.50	7.31	6.43	6.83	20.57	98
WETLAND	2.19	2.06	1.53	1.49	7.27	6.43	6.70	20.40	97
631	2.25	1.98	1.47	1.50	7.19	6.09	6.52	19.80	94
FEAST+EV	2.19	2.03	1.47	1.43	7.11	6.03	6.36	19.50	93
9701	2.19	1.91	1.24	1.39	6.73	5.38	5.55	17.66	84
VERNAL	2.11	1.84	1.25	1.39	6.58	5.37	5.39	17.34	82
SARANAC AR	1.83	1.70	1.15	1.26	5.94	4.96	5.53	16.42	78
Mean	2.36	2.10	1.57	1.54	7.58	6.52	6.96	21.05	
5%_LSD	0.30	0.21	0.16	0.13	0.64	0.64	0.52	1.59	
CV(%)	8.89	6.96	7.04	6.09	5.99	7.02	5.37	5.38	
MCV(%)	12.49	9.78	9.89	8.56	8.41	9.86	7.54	7.56	

**Date of Seeding:** April 1<sup>st</sup>, 1999.

**Soil Type:** Flagg silt loam.

**Herbicides:** March 13<sup>th</sup> (Sencor).

**Pest Control:** July 9<sup>th</sup> and August 5<sup>th</sup> (Pounce).

**Plot Dimensions:** 3' x19'.

### 1999 Freeport Alfalfa Variety Trial Without Insecticides

Brand-Variety	2002					2001	2000	3-yr	Relative
	5/25	6/25	7/24	8/27	Total	Total	Total	Total	Yield
* Experimental	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	% Trial Mean
6310	1.55	1.48	1.00	1.07	5.10	5.29	6.40	16.78	110
53H81*	1.45	1.39	0.93	0.98	4.74	5.38	5.97	16.08	105
AMERGUARD 302+Z	1.37	1.42	0.93	1.03	4.75	4.58	6.26	15.58	102
VERNAL	1.73	1.44	0.77	1.03	4.96	4.19	5.09	14.24	93
SARANAC AR	1.54	1.34	0.66	0.88	4.41	3.85	5.34	13.60	89
<b>Mean</b>	1.53	1.41	0.86	1.00	4.79	4.65	5.81	15.26	
<b>5%_LSD</b>	0.26	0.14	0.18	0.16	0.64	0.75	0.86	2.02	
<b>CV(%)</b>	11.26	6.60	13.95	10.15	8.62	10.52	9.58	8.57	
<b>MCV(%)</b>	17.34	10.17	21.50	15.64	13.28	16.20	14.76	13.21	

**Date of Seeding:** April 1<sup>st</sup>, 1999.

**Soil Type:** Flagg silt loam.

**Herbicides:** March 13<sup>th</sup> (Sencor).

**Plot Dimensions:** 3' x19'.

### 2001 Freeport Alfalfa Variety Trial

Brand-Variety	2002					Relative
	5/24	6/25	7/24	8/27	Total	Yield
* Experimental	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	% Trial Mean
WL 342	2.89	2.15	1.78	1.70	8.52	109
DK134	2.74	2.17	1.67	1.74	8.32	106
ROCKET	2.73	2.12	1.67	1.75	8.26	106
6410	2.60	2.18	1.74	1.62	8.14	104
ABUNDANCE	2.68	2.12	1.61	1.62	8.03	103
DKA 42-15	2.61	2.07	1.68	1.64	8.00	102
US A4230	2.53	2.07	1.74	1.63	7.96	102
HYBRIFORCE-400	2.58	2.16	1.61	1.59	7.94	102
AMERISTAND 403T	2.50	2.36	1.58	1.50	7.94	102
9702	2.61	2.01	1.70	1.61	7.93	101
RELIANCE	2.57	2.08	1.69	1.57	7.91	101
631	2.57	2.05	1.68	1.62	7.91	101
GH 700	2.54	2.09	1.69	1.59	7.90	101
TRUMP	2.52	2.04	1.65	1.62	7.83	100
GOLD LEAF	2.51	2.01	1.65	1.62	7.79	100
PROLIFIC	2.58	2.04	1.55	1.59	7.76	99
54V54	2.48	2.07	1.62	1.57	7.74	99
A-30-06	2.49	2.07	1.64	1.53	7.73	99
MAGNUM V	2.49	2.03	1.64	1.58	7.73	99
645-II	2.53	2.03	1.59	1.58	7.72	99
AV 3420	2.38	2.08	1.60	1.61	7.67	98
RADIANT	2.32	2.03	1.61	1.59	7.55	97
4 TRAFFIC	2.48	2.01	1.50	1.51	7.50	96
53Q60	2.34	1.98	1.59	1.48	7.39	94
ABSOLUTE BRAND	2.37	2.01	1.44	1.48	7.30	93
VERNAL	2.40	1.85	1.19	1.44	6.87	88
Mean	2.54	2.07	1.62	1.59	7.82	
5%_LSD	0.24	0.23	0.18	0.11	0.54	
CV(%)	6.66	8.03	8.10	4.77	4.88	
MCV(%)	9.38	11.32	11.41	6.72	6.87	

**Date of Seeding:** April 20<sup>th</sup>, 2001.

**Soil Type:** Flagg silt loam.

**Herbicides:** March 13<sup>th</sup> (Kerb).

**Pest Control:** July 9<sup>th</sup> and August 5<sup>th</sup> (Pounce).

**Plot Dimensions:** 3' x 19'.



### 1999 Yorkville Alfalfa Variety Trial

Brand-Variety * Experimental	2002					2001	2000	3-yr	Relative
	5/24	6/26	7/24	8/27	Total	Total	Total	Total	Yield
	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	% Trial Mean
54V45*	2.31	2.32	1.68	1.49	7.79	8.14	8.47	24.40	107
ENHANCER	2.45	2.33	1.66	1.43	7.86	7.87	8.44	24.18	106
645-II	2.49	2.36	1.66	1.49	8.00	7.66	8.31	23.98	106
FEAST+EV	2.05	2.18	1.49	1.32	7.03	7.63	8.41	23.06	102
6410	2.15	2.21	1.54	1.42	7.32	7.69	8.03	23.04	101
53Q60	2.31	2.24	1.55	1.41	7.50	7.58	7.87	22.95	101
631	2.30	2.12	1.51	1.37	7.29	7.45	7.94	22.68	100
WETLAND	2.29	2.21	1.46	1.31	7.28	7.36	7.76	22.40	99
SARANAC AR	2.08	1.90	1.25	1.16	6.38	6.76	7.30	20.44	90
VERNAL	2.29	2.08	1.28	1.21	6.86	6.30	6.88	20.04	88
<b>Mean</b>	2.27	2.19	1.51	1.36	7.33	7.44	7.94	22.72	
<b>5%_LSD</b>	0.17	0.20	0.17	0.12	0.43	0.43	0.47	1.06	
<b>CV(%)</b>	5.07	6.43	7.67	5.91	4.02	3.95	4.10	3.22	
<b>MCV(%)</b>	7.35	9.33	11.12	8.57	5.83	5.74	5.95	4.68	

**Date of Seeding:** April 1<sup>st</sup>, 1999.

**Soil Type:** Saybrook silt loam.

**Herbicides:** March 13<sup>th</sup> (Sencor).

**Pest Control:** July 9<sup>th</sup> and August 5<sup>th</sup> (Pounce).

**Plot Dimensions:** 3' x 19'.

### 1999 Yorkville Alfalfa Variety Trial Without Insecticides

Brand-Variety * Experimental	2002					2001	2000	3-yr	Relative
	5/24	6/26	7/24	8/27	Total	Total	Total	Total	Yield
	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	% Trial Mean
53H81*	1.98	1.96	1.85	1.19	6.97	7.67	8.43	23.07	116
6310	2.03	1.98	1.68	1.15	6.84	7.41	8.16	22.41	112
DEFENSE+EV*	1.90	1.68	1.18	0.90	5.65	6.74	8.00	20.39	102
VERNAL	2.20	1.63	0.80	0.76	5.38	5.18	6.64	17.20	86
SARANAC AR	1.95	1.51	0.77	0.68	4.90	5.34	6.43	16.66	84
<b>Mean</b>	2.01	1.75	1.25	0.93	5.95	6.47	7.53	19.95	
<b>5%_LSD</b>	0.27	0.20	0.09	0.20	0.56	0.58	0.43	1.42	
<b>CV(%)</b>	8.81	7.35	4.75	14.19	6.15	5.80	3.72	4.62	
<b>MCV(%)</b>	13.57	11.32	7.31	21.87	9.48	8.94	5.73	7.12	

**Date of Seeding:** April 1<sup>st</sup>, 1999.

**Soil Type:** Saybrook silt loam.

**Herbicides:** March 13<sup>th</sup> (Sencor).

**Plot Dimensions:** 3' x 19'.

### 1999 Urbana Alfalfa Variety Trial

Brand-Variety	2002					2001	2000	3-yr	Relative
	5/22	6/24	7/22	8/26	Total	Total	Total	Total	Yield
	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	% Trial Mean
* Experimental									
ROCKET*	2.37	2.68	1.30	1.71	8.06	8.13	10.00	26.19	108
54V45*	2.18	2.70	1.37	1.73	7.97	7.84	10.05	25.85	107
JADE II	2.26	2.63	1.35	1.65	7.89	7.34	9.42	24.65	102
53Q60	2.23	2.60	1.26	1.66	7.75	7.00	9.56	24.30	101
YIELDER	2.25	2.52	1.24	1.54	7.54	7.39	9.19	24.13	100
VERNAL	2.19	2.40	0.99	1.50	7.09	6.83	8.27	22.18	92
SARANAC AR	1.83	2.25	0.97	1.49	6.54	6.45	8.86	21.86	90
Mean	2.19	2.54	1.21	1.61	7.55	7.28	9.33	24.16	
5%_LSD	0.20	0.22	0.15	0.24	0.55	0.49	0.56	1.03	
CV(%)	6.15	5.77	8.36	10.18	4.93	4.48	4.05	2.86	
MCV(%)	9.14	8.57	12.42	15.12	7.32	6.66	6.01	4.25	

**Date of Seeding:** April 2<sup>nd</sup>, 1999.

**Soil Type:** Drummer-Flanagan silty-clay loam.

**Herbicides:** March 19<sup>th</sup> (Pursuit).

**Pest Control:** May 16<sup>th</sup>, July 2<sup>nd</sup> and August 2<sup>nd</sup> (Pounce).

**Plot Dimensions:** 3' x 19'.

### 1999 Urbana Alfalfa Variety Trial Without Insecticides

Brand-Variety	2002					2001	2000	3-yr	Relative
	5/22	6/24	7/22	8/26	Total	Total	Total	Total	Yield
	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	% Trial Mean
* Experimental									
4R37*	2.43	2.74	1.43	1.61	8.20	7.45	9.51	25.16	107
53H81*	2.46	2.54	1.51	1.59	8.09	7.13	9.80	25.02	107
FQ 302 HR	2.48	2.54	1.41	1.52	7.95	7.09	9.54	24.58	105
ZH 9831 H*	2.49	2.54	1.39	1.59	8.01	7.10	9.38	24.49	104
DK 131 HG	2.31	2.41	1.36	1.57	7.64	6.90	9.79	24.33	104
ZH 9825 H*	2.09	2.29	1.35	1.46	7.18	7.11	9.33	23.62	101
AMERGUARD 302+Z	2.04	2.24	1.05	1.19	6.51	6.46	9.06	22.03	94
SARANAC AR	2.15	2.15	0.69	1.03	6.02	6.26	8.63	20.91	89
VERNAL	2.59	2.33	0.72	1.13	6.76	6.02	8.03	20.81	89
Mean	2.34	2.42	1.21	1.41	7.37	6.83	9.23	23.44	
5%_LSD	0.26	0.18	0.19	0.16	0.50	0.34	0.48	0.78	
CV(%)	7.51	5.00	10.94	7.61	4.65	3.44	3.54	2.29	
MCV(%)	10.95	7.29	15.96	11.11	6.78	5.01	5.17	3.34	

**Date of Seeding:** April 2<sup>nd</sup>, 1999.

**Soil Type:** Drummer-Flanagan silty-clay loam.

**Herbicides:** March 19<sup>th</sup> (Pursuit).

**Pest Control:** May 16<sup>th</sup> (Pounce).

**Plot Dimensions:** 3' x 19'.

### 2000 Urbana Alfalfa Variety Trial

Brand-Variety	2002					2001	2-yr	Relative
	5/22	6/24	7/22	8/26	Total	Total	Total	Yield
* Experimental	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	% Trial Mean
MAGNUM V	2.74	2.90	1.80	1.86	9.29	7.66	16.95	109
GOLD LEAF	2.69	2.76	1.71	1.84	9.00	7.15	16.14	104
631	2.61	2.77	1.66	1.83	8.87	7.10	15.97	103
54V54	2.52	2.82	1.66	1.86	8.87	7.06	15.93	103
645-II	2.64	2.80	1.62	1.85	8.90	7.02	15.92	103
INTRIGUE	2.65	2.80	1.76	1.81	9.01	6.87	15.88	102
6410	2.60	2.62	1.60	1.86	8.69	7.05	15.73	101
53Q60	2.54	2.76	1.70	1.77	8.76	6.84	15.60	100
WETLAND	2.77	2.72	1.52	1.74	8.74	6.79	15.52	100
53H81	2.49	2.71	1.59	1.73	8.52	6.59	15.11	97
SARANAC AR	2.44	2.39	1.28	1.53	7.64	6.44	14.08	91
VERNAL	2.44	2.26	1.22	1.46	7.37	6.21	13.58	87
<b>Mean</b>	2.59	2.69	1.59	1.76	8.64	6.90	15.53	
<b>5%_LSD</b>	0.18	0.19	0.17	0.12	0.53	0.48	0.89	
<b>CV(%)</b>	4.88	4.91	7.62	4.74	4.25	4.87	3.98	
<b>MCV(%)</b>	7.02	7.06	10.97	6.83	6.11	7.01	5.73	

**Date of Seeding:** April 1<sup>st</sup>, 2000.

**Soil Type:** Drummer-Flanagan silty-clay loam.

**Herbicides:** March 19<sup>th</sup> (Pursuit).

**Pest Control:** May 16<sup>th</sup>, July 2<sup>nd</sup> and August 2<sup>nd</sup> (Pounce).

**Plot Dimensions:** 3' x19'.

### 2001 Urbana Alfalfa Variety Trial

Brand-Variety	2002					Relative
	5/21	6/24	7/22	8/26	Total	Yield
	T	T DM/A	T DM/A	T DM/A	T DM/A	% Trial Mean
* Experimental						
PEGASUS	3.04	3.12	1.69	1.85	9.69	105
PROLIFIC	2.90	2.92	1.83	1.88	9.53	103
631	2.90	2.92	1.83	1.86	9.50	103
WL 327	2.95	3.01	1.68	1.86	9.49	103
DKA 42-15	2.96	2.93	1.71	1.88	9.48	103
HYBRIFORCE-400	3.17	2.82	1.63	1.85	9.46	102
6410	2.91	3.00	1.62	1.85	9.37	101
54V54	2.88	2.99	1.60	1.91	9.37	101
645-II	2.95	2.95	1.63	1.82	9.34	101
AMERISTAND 403T	3.04	2.85	1.55	1.84	9.27	100
53Q60	2.80	2.89	1.75	1.82	9.25	100
ABUNDANCE	2.94	2.82	1.57	1.84	9.17	99
EXTENDER II	2.91	2.88	1.44	1.82	9.05	98
ABSOLUTE BRAND II	2.87	2.84	1.55	1.79	9.04	98
797 LHR	3.00	2.87	1.39	1.76	9.02	98
ABSOLUTE BRAND GZ	2.89	2.83	1.55	1.75	9.01	98
VERNAL	2.88	2.59	1.08	1.53	8.07	87
<b>Mean</b>	2.94	2.89	1.59	1.82	9.24	
<b>5%_LSD</b>	0.21	0.15	0.39	0.11	0.63	
<b>CV(%)</b>	4.98	3.67	17.09	4.11	4.80	
<b>MCV(%)</b>	7.08	5.22	24.29	5.85	6.82	

**Date of Seeding:** April 3<sup>rd</sup>, 2001.

**Soil Type:** Drummer-Flanagan silty-clay loam.

**Herbicides:** March 19<sup>th</sup> (Pursuit).

**Pest Control:** May 16<sup>th</sup>, July 2<sup>nd</sup> and August 2<sup>nd</sup> (Pounce).

**Plot Dimensions:** 3' x 19'.



### 1999 Perry Alfalfa Variety Trial

Brand-Variety	2002					2001	2000	3-yr	Relative
	5/20	6/20	7/18	8/20	Total	Total	Total	Total	Yield
* Experimental	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	% Trial Mean
DK 140	2.56	2.51	1.25	1.22	7.54	7.12	4.34	19.00	106
DK 141	2.70	2.47	1.20	1.25	7.61	6.95	4.12	18.68	104
ABSOLUTE BRAND GZ	2.53	2.39	1.21	1.14	7.27	6.84	4.15	18.26	102
SARANAC AR	2.32	2.14	1.00	1.35	6.80	6.63	3.93	17.35	97
VERNAL	2.47	2.14	1.03	1.28	6.92	6.48	3.96	17.35	97
ABSOLUTE BRAND	2.36	2.23	1.01	1.15	6.74	6.23	3.75	16.72	93
<b>Mean</b>	2.49	2.31	1.11	1.23	7.15	6.71	4.04	17.89	
<b>5%_LSD</b>	0.20	0.18	0.13	0.16	0.33	0.57	0.48	1.26	
<b>CV(%)</b>	5.35	5.30	7.50	8.85	3.08	5.62	7.94	4.69	
<b>MCV(%)</b>	8.07	7.99	11.31	13.34	4.64	8.46	11.97	7.07	

**Date of Seeding:** April 7<sup>th</sup>, 1999.

**Soil Type:** Rozetta silt loam.

**Herbicides:** March 12<sup>th</sup> (Pursuit).

**Pest Control:** May 17<sup>th</sup> and July 31<sup>st</sup> (Lorsban).

**Plot Dimensions:** 3' x 19'.

### 1999 Perry Alfalfa Variety Trial Without Insecticides

Brand-Variety	2002					2001	2000	3-yr	Relative
	5/20	6/20	7/18	8/20	Total	Total	Total	Total	Yield
* Experimental	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	% Trial Mean
DK 131 HG	2.25	2.27	1.25	1.18	6.94	6.98	4.10	18.02	108
CIMARRON SR	2.48	2.32	1.08	0.99	6.87	6.82	3.77	17.45	105
VERNAL	2.46	2.02	0.84	1.06	6.38	5.95	3.35	15.67	94
SARANAC AR	2.38	2.01	0.84	0.91	6.13	5.97	3.50	15.61	94
<b>Mean</b>	2.39	2.16	1.00	1.03	6.58	6.43	3.68	16.69	
<b>5%_LSD</b>	0.24	0.11	0.14	0.18	0.36	0.42	0.34	0.98	
<b>CV(%)</b>	6.29	3.20	8.82	10.75	3.42	4.12	5.73	3.68	
<b>MCV(%)</b>	10.06	5.12	14.11	17.20	5.46	6.59	9.17	5.88	

**Date of Seeding:** April 7<sup>th</sup>, 1999.

**Soil Type:** Rozetta silt loam.

**Herbicides:** March 12<sup>th</sup> (Pursuit).

**Pest Control:** May 17<sup>th</sup> (Lorsban).

**Plot Dimensions:** 3' x 19'.

### 1999 Belleville Alfalfa Variety Trial

Brand-Variety	2002					2001	2000	3-yr	Relative
	5/20	6/20	7/19	8/20	Total	Total	Total	Total	Yield
* Experimental	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	% Trial Mean
4G70*	1.69	1.91	1.14	1.19	5.92	7.46	6.04	19.42	105
DK 140	1.66	1.86	1.07	1.24	5.82	7.44	5.76	19.02	103
DK 141	1.66	1.73	0.98	1.18	5.55	7.44	5.90	18.88	103
53Q60	1.61	1.81	1.12	1.18	5.71	7.27	5.78	18.75	102
A-395	1.61	1.86	1.04	1.13	5.63	7.28	5.68	18.59	101
EMPEROR	1.61	1.87	1.09	1.19	5.76	7.17	5.59	18.53	101
ABT 400 SCL	1.68	1.78	1.12	1.23	5.80	7.19	5.54	18.52	101
STELLER	1.57	1.71	1.04	1.02	5.34	6.93	5.57	17.83	97
VERNAL	1.56	1.75	0.88	1.32	5.51	6.65	5.31	17.46	95
SARANAC AR	1.40	1.69	1.01	1.25	5.35	6.43	5.36	17.14	93
<b>Mean</b>	1.60	1.80	1.05	1.19	5.64	7.12	5.65	18.41	
<b>5%_LSD</b>	0.18	0.09	0.13	0.12	0.28	0.45	0.24	0.65	
<b>CV(%)</b>	7.64	3.32	8.29	7.08	3.37	4.38	2.87	2.43	
<b>MCV(%)</b>	11.08	4.82	12.03	10.27	4.89	6.35	4.17	3.53	

**Date of Seeding:** March 31<sup>st</sup>, 1999.

**Soil Type:** Alford silt loam.

**Herbicides:** March 12<sup>th</sup> (Pursuit) July 3<sup>rd</sup> (Select).

**Pest Control:** April 17<sup>th</sup> (Warrior), July 3<sup>rd</sup> (Pounce) and July 22<sup>nd</sup> (Warrior).

**Plot Dimensions:** 3' x19'.

### 1999 Belleville Alfalfa Variety Trial Without Insecticides

Brand-Variety	2002					2001	2000	3-yr	Relative
	5/20	6/20	7/19	8/20	Total	Total	Total	Total	Yield
* Experimental	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	% Trial Mean
DK 131HG	1.47	1.81	1.03	1.06	5.38	7.39	5.61	18.38	105
3R22*	1.50	1.79	0.85	1.13	5.27	7.24	5.45	17.95	103
CLEAN SWEEP 1000	1.50	1.68	0.87	1.02	5.06	7.08	5.25	17.39	100
VERNAL	1.72	1.79	0.91	0.98	5.41	6.73	4.92	17.05	98
BARALFA 54	1.41	1.55	0.83	1.17	4.95	6.97	5.08	17.00	98
SARANAC AR	1.68	1.67	0.84	1.06	5.25	6.62	5.00	16.86	97
<b>Mean</b>	1.55	1.71	0.89	1.07	5.22	7.00	5.22	17.44	
<b>5%_LSD</b>	0.17	0.19	0.15	0.14	0.36	0.29	0.21	0.73	
<b>CV(%)</b>	7.22	7.51	11.03	8.84	4.62	2.74	2.67	2.78	
<b>MCV(%)</b>	10.89	11.32	16.62	13.32	6.96	4.13	4.02	4.19	

**Date of Seeding:** March 31<sup>st</sup>, 1999.

**Soil Type:** Alford silt loam.

**Herbicides:** March 12<sup>th</sup> (Pursuit) July 3<sup>rd</sup> (Select).

**Pest Control:** April 17<sup>th</sup> (Warrior).

**Plot Dimensions:** 3' x19'.

### 2000 Belleville Alfalfa Variety Trial

Brand-Variety	2002					2001	2-yr	Relative
	5/20	6/20	7/19	8/20	Total	Total	Total	Yield
	T	T	T	T DM/A	T DM/A	T DM/A	T DM/A	% Trial Mean
* Experimental								
54V54	1.71	1.81	1.08	1.06	5.66	7.08	12.74	106
ROCKET	1.55	1.87	1.07	1.08	5.57	6.93	12.49	104
AWESOME	1.54	1.78	1.05	1.07	5.44	7.00	12.44	103
DK 140	1.62	1.83	1.05	1.06	5.56	6.86	12.42	103
RELIANCE	1.72	1.78	1.00	1.03	5.53	6.86	12.39	103
A 30-06	1.47	1.87	1.05	1.11	5.50	6.80	12.29	102
53H81	1.48	1.81	0.93	1.04	5.26	6.91	12.17	101
ABSOLUTE BRAND	1.63	1.78	1.01	0.99	5.40	6.69	12.09	100
SARANAC AR	1.64	1.73	0.93	1.01	5.31	6.68	11.99	99
53Q60	1.36	1.69	0.93	1.10	5.07	6.85	11.92	99
FQ 315	1.38	1.71	0.91	1.06	5.05	6.83	11.89	99
C 416	1.48	1.72	1.03	1.07	5.29	6.58	11.87	98
DK 141	1.55	1.80	0.81	0.96	5.11	6.67	11.79	98
ABSOLUTE BRAND GZ	1.43	1.63	0.89	1.06	5.00	6.72	11.72	97
FEAST+EV	1.45	1.85	0.89	0.98	5.18	6.53	11.71	97
VERNAL	1.47	1.58	0.94	1.04	5.03	6.60	11.63	96
YIELDER	1.44	1.73	0.94	0.95	5.06	6.50	11.55	96
<b>Mean</b>	1.52	1.76	0.97	1.04	5.29	6.77	12.06	
<b>5%_LSD</b>	0.21	0.20	0.16	0.14	0.52	0.44	0.77	
<b>CV(%)</b>	9.52	7.98	11.44	9.63	6.86	4.56	4.52	
<b>MCV(%)</b>	13.5	11.34	16.26	13.70	9.76	6.48	6.42	

**Date of Seeding:** April 3<sup>rd</sup>, 2000.

**Soil Type:** Alford silt loam.

**Herbicides:** March 12<sup>th</sup> (Pursuit) July 3<sup>rd</sup> (Select).

**Pest Control:** April 17<sup>th</sup> (Warrior), July 3<sup>rd</sup> (Pounce) and July 22<sup>nd</sup> (Warrior).

**Plot Dimensions:** 3' x19'.

### 2000 Belleville Alfalfa Variety Trial Without Insecticides

Brand-Variety	2002					2001	2-yr	Relative
	5/20	6/20	7/19	8/20	Total	Total	Total	Yield
	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	% Trial Mean
* Experimental								
4R37*	1.63	1.66	1.02	0.93	5.23	7.36	12.58	106
53H81	1.67	1.83	0.94	0.89	5.32	7.18	12.50	105
DK 131 HG	1.54	1.76	0.90	0.91	5.11	7.09	12.20	102
DEFENSE+EV	1.63	1.72	0.88	0.85	5.07	7.02	12.09	101
VERNAL	1.52	1.72	0.71	0.95	4.90	6.25	11.15	94
SARANAC AR	1.49	1.73	0.72	0.74	4.67	6.29	10.96	92
<b>Mean</b>	1.58	1.73	0.86	0.88	5.05	6.86	11.91	
<b>5%_LSD</b>	0.26	0.14	0.11	0.14	0.40	0.51	0.77	
<b>CV(%)</b>	11.06	5.55	8.51	10.37	5.21	4.93	4.28	
<b>MCV(%)</b>	16.67	8.36	12.82	15.63	7.85	7.44	6.45	

**Date of Seeding:** April 3<sup>rd</sup>, 2000.

**Soil Type:** Alford silt loam.

**Herbicides:** March 12<sup>th</sup> (Pursuit) July 3<sup>rd</sup> (Select).

**Pest Control:** April 17<sup>th</sup> (Warrior).

**Plot Dimensions:** 3' x19'.

### 2000 Freeport Grass Variety Trial

Brand-Variety		2002					2001	2-yr	Relative
		5/24	6/26	7/24	8/27	Total	Total	Total	Yield
* Experimental	Species <sup>1</sup>	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	% Trial Mean
Festival	TF	2.54	2.11	0.78	0.51	5.94	6.76	12.7	125
Kentucky 31	TF	1.83	1.89	0.83	0.4	4.95	6.97	11.91	117
Select	TF	2.21	1.84	0.73	0.41	5.18	6.53	11.71	115
MaxQ Jesup	TF	1.99	1.71	0.59	0.4	4.7	6.25	10.94	108
Kokanee	TF	1.9	1.92	0.46	0.35	4.63	5.59	10.21	100
OG9705G	OG	2.4	1.6	0.44	0.35	4.79	5.12	9.91	97
Okay	OG	2.17	1.66	0.37	0.3	4.51	5.26	9.77	96
Potomac	OG	2.17	1.57	0.4	0.35	4.5	5.04	9.53	94
Eastwood	OG	1.11	1.47	0.27	0.37	3.21	2.75	5.96	59
<b>Mean</b>		2.03	1.72	0.52	0.38	4.65	5.51	10.16	
<b>5%_LSD</b>		0.41	0.32	0.17	0.12	0.79	0.99	1.64	
<b>CV(%)</b>		13.86	12.91	22.26	21.47	11.67	12.43	11.09	
<b>MCV(%)</b>		20.11	18.73	32.29	31.16	16.93	18.04	16.09	

**Date of Seeding:** April 4<sup>th</sup>, 2000.

<sup>1</sup> see page 7 for key

**Soil Type:** Flagg silt loam.

**Herbicides:** None.

**Plot Dimensions:** 3' x 19'.



### 2000 Urbana Grass Variety Trial

Brand-Variety		2002					2001	2-yr	Relative
		5/21	6/24	7/22	8/26	Total	Total	Total	Yield
* Experimental	Species <sup>1</sup>	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	T DM/A	% Trial Mean
HOEDOWN	TF	2.94	2.58	0.58	1.03	7.13	5.77	12.90	127
TETON	TF	3.75	2.14	0.53	0.83	7.24	5.47	12.71	125
BULL	TF	2.99	2.40	0.58	0.83	6.79	5.37	12.16	119
KENTUCKY 31	TF	3.22	2.38	0.46	0.73	6.78	5.21	11.98	118
MARTIN 2	TF	3.00	1.96	0.51	0.85	6.31	4.54	10.85	106
POTOMAC	OG	2.96	2.07	0.26	0.62	5.91	4.66	10.58	104
MAXQ JESUP	TF	2.47	2.04	0.42	0.60	5.53	4.99	10.52	103
BRONC	OG	3.07	1.99	0.22	0.80	6.08	4.05	10.13	99
UDDER	OG	2.84	2.08	0.28	0.76	5.96	4.14	10.09	99
CAS-M85	TF	2.70	1.70	0.43	0.74	5.57	4.52	10.08	99
CAS-LG31	OG	1.89	1.76	0.16	0.64	4.44	3.69	8.13	80
EASTWOOD	OG	1.94	1.74	0.19	0.78	4.65	3.35	8.00	79
GRAND DADDY	PRT	1.62	1.57	0.17	0.58	3.93	2.50	6.43	63
TONGA	PRT	1.22	1.42	0.15	0.61	3.40	2.07	5.46	54
<b>Mean</b>		2.65	2.01	0.36	0.75	5.77	4.41	10.19	
<b>5%_LSD</b>		0.60	0.36	0.13	0.23	1.05	1.23	2.06	
<b>CV(%)</b>		15.86	12.45	26.10	20.99	12.73	19.45	14.19	
<b>MCV(%)</b>		22.63	17.76	37.24	29.96	18.17	27.76	20.25	

**Date of Seeding:** April 1<sup>st</sup>, 2000.

<sup>1</sup>see page 7 for key

**Soil Type:** Drummer-Flanagan silty-clay loam.

**Herbicides:** May 28<sup>th</sup> (Weedon).

**Plot Dimensions:** 3' x 19'.

# 2001 Perry Grass Variety Trial

Brand-Variety	Species <sup>1</sup>	2002				Relative
		5/20	6/21	7/18	Total	Yield
* Experimental		T DM/A	T DM/A	T DM/A	T DM/A	% Trial Mean
KENTUCKY 31	TF	3.68	4.54	0.98	9.20	167
FESTIVAL	TF	3.51	3.03	0.82	7.36	134
KOKANEE	TF	3.42	3.19	0.54	7.14	130
MAXQ JESUP	TF	3.88	2.48	0.67	7.03	128
POTOMAC	OG	3.20	2.71	0.39	6.30	114
CLAIR	TM	3.24	1.85	0.24	5.33	97
OKAY	OG	3.26	1.84	0.22	5.32	97
AGRBW 101	PG	2.74	2.24	0.34	5.31	96
MATUA	PB	2.67	2.27	0.32	5.27	96
DUO	FS	2.84	2.04	0.15	5.02	91
BISON	HRG	2.44	2.24	0.16	4.84	88
DIXON	PB	2.21	2.05	0.49	4.75	86
LAKOTA	PB	2.12	2.11	0.29	4.52	82
EASTWOOD	OG	2.40	1.75	0.37	4.52	82
LINCOLN	SB	2.88	1.09	0.36	4.33	79
TONGA	PRG	2.08	1.73	0.20	4.01	73
TUUKKA	TM	2.10	1.12	0.24	3.46	63
<b>Mean</b>		2.86	2.25	0.40	5.51	
<b>5%_LSD</b>		0.77	0.54	0.19	1.06	
<b>CV(%)</b>		18.98	16.81	34.15	13.50	
<b>MCV(%)</b>		26.99	23.90	48.55	19.19	

**Date of Seeding:** April 5<sup>th</sup>, 2001.

<sup>1</sup>see page 7 for key

**Soil Type:** Rozetta silt loam.

**Herbicides:** None.

**Plot Dimensions:** 3' x 19'.









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